

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/003030**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 C12N 1/21**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols).

IPC7 C12N 1/21

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and application for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS, PubMed, Delphion

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0789073 A2 (DEGUSSA AKTIENGESELLSCHAFT) 13 AUGUST 1997 See the whole document.	1-3
A	KR 1999-012361 A (CHEIL JEDANG CORPORATION) 25 FEBRUARY 1999 See the whole document.	1-3
A	JP 64-080280 A (MITSUI TOATSU CHEM INC.) 27 MARCH 1989 See the whole document.	1-3



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family


Date of the actual completion of the international search

11 MARCH 2005 (11.03.2005)

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003030

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0789073 A2	13.08.1997	AT 204324 T	15.09.2001
		AU 6445296 A	13.03.1997
		AU 712821 B2	18.11.1999
		BR 9603654 A	19.05.1998
		CA 2184760 A1	06.03.1997
		DE 69614498 D1	20.09.2001
		DE 69614498 T2	23.05.2002
		EP 0789073 A2	13.08.1997
		GB 2304718 A	26.03.1997
		JP 9121846 A	13.05.1997
		SK 111096 A3	07.05.1997
		US 5756345 A	26.05.1998
		ZA 9607474 A	27.02.1998
KR 1999-012361 A	25.02.1999	none	
JP 64-080280 A	27.03.1989	none	